

Stanyl® TW271F8

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW271F8 is a Polyamide 46 (Nylon 46) material filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TW271F8 are:
Heat Stabilizer
Wear Resistant

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Wear Resistance		
	Heat Stabilized		
	Low Friction		

Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm³	ISO 1183

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2
Tensile Stress (Break)	210	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	11500	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	14	kJ/m²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	285	°C	ISO 75-2/A
Melting Temperature	290	°C	ISO 11357-3

Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	280 to 320	°C	
Middle Temperature	300 to 320	°C	
Front Temperature	300 to 320	°C	
Nozzle Temperature	300 to 320	°C	
Processing (Melt) Temp	305 to 320	°C	
Mold Temperature	80.0 to 120	°C	
Injection Rate	Moderate-Fast		
Back Pressure	2.00 to 10.0	MPa	

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Recommended distributors for this material

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